

CLAIMS:

1. A display screen (5) comprising a plurality of cells (2), each cell (2) comprising:
 - a pixel (P) for generating light (Lo) when driven by an electrical signal (I);
 - a driver circuit (A) for providing the electrical signal (I); and
- 5 - a photosensitive device (D) for receiving optical display signals (Li) to control the pixel (P) via the driver circuit (A).
2. A display screen (5) as claimed in claim 1, the driver circuit (A) comprising a drive transistor (DT) having a control terminal and a first and a second main terminal, each cell (2) further comprising a storage capacitor (C) having a first and a second terminal and being coupled in parallel to the photosensitive device (D), the first terminal of the storage capacitor (C) being coupled to the control terminal of the drive transistor (DT), and the first main terminal of the drive transistor (DT) being coupled to the pixel (P).
- 10 15 3. A display screen (5) as claimed in claim 2, each cell (2) further comprising a storage reset switch (SR) coupled to the first terminal of the respective storage capacitor (C) to provide a storage reset voltage (VR) at the first terminal of the respective storage capacitor (C).
- 20 4. A display screen (5) as claimed in claim 3, the second main terminal of the drive transistor (DT) of each cell (2) being coupled to a first supply voltage (V1), and the second terminal of the storage capacitor (C) being coupled to a reference voltage (Vref) different from the first supply voltage (V1).
- 25 5. A display screen (5) as claimed in claim 4, each storage reset switch (SR) of the plurality of cells (2) being arranged to be operated according to a sequence of:
 - activating the storage reset switch (SR) for providing the storage reset voltage (VR) at the first terminal of the respective storage capacitor (C); and
 - deactivating the storage reset switch (SR) for enabling the respective

photosensitive device (D) to discharge the respective storage capacitor (C) in dependence on the optical display signals (Li).

6. A display screen (5) as claimed in claim 3, the second main terminal of the
5 drive transistor (DT) and the second terminal of the storage capacitor (C) of each cell (2) being coupled to a first supply voltage (V1).

7. A display screen (5) as claimed in claim 6, having a pixel switch (PS) coupled to each pixel (P) of a number of the plurality of cells (2) to constitute a group of cells (2) and 10 to alternately couple each pixel (P) of the group of cells (2) to a second supply voltage (V2) for turning off the pixel (P) and to a third supply voltage (V3) for enabling the pixel (P) to generate light.

8. A display screen (5) as claimed in claim 7, each storage reset switch (SR) of 15 the group of cells (2) and the pixel switch (PS) being arranged to be operated according to a sequence of:

- coupling each pixel (P) of the group of cells (2) via the pixel switch (PS) to the second supply voltage (V2) and activating each storage reset switch (SR) of the group of cells (2) for providing the storage reset voltage (VR) at the first terminal of the respective storage capacitor (C);
- deactivating each storage reset switch (SR) of the group of cells (2) for enabling the respective photosensitive device (D) coupled to the respective storage capacitor (C) to discharge the respective storage capacitor (C) in dependence on the optical display signals (Li); and
- coupling each pixel (P) of the group of cells (2) via the pixel switch (PS) to the third supply voltage (V3).

9. A display screen (5) as claimed in claim 1, having a front side for delivering light (Lo) generated by each pixel (P) of the plurality of cells (2), each photosensitive device 30 (D) of the plurality of cells (2) being adapted to receive the optical display signals (Li) from a source positioned at a side of the screen (5) facing away from the front side.

10. A display screen (5) as claimed in claim 1, each photosensitive device (D) of the plurality of cells (2) being adapted to receive optical display signals (Li) of non-visible light.

5 11. A display system (6) comprising a display screen (5) as claimed in claim 1, and an optical image source (3) for transmitting optical display signals (Li) to each photosensitive device (D) of the plurality of cells (2).

10 12. A display system (6) as claimed in claim 11, the optical image source (3) being selected from a projection device and a laser scanner.